



United States Department of Agriculture

NAE Snowpack Update

May 15, 2019

Kent Sutcliffe
NRCS Snow Survey

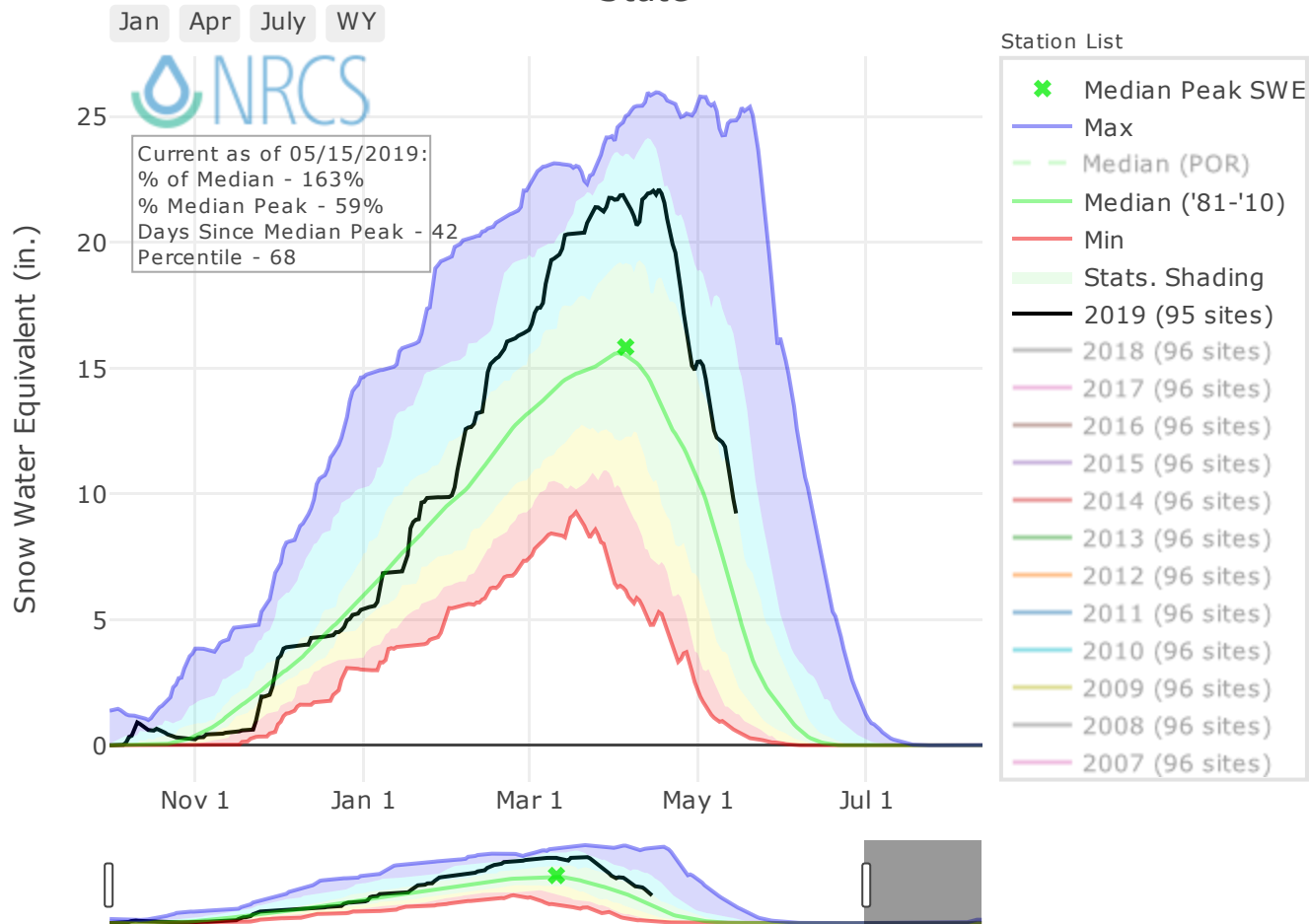
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www.ut.nrcs.usda.gov/snow

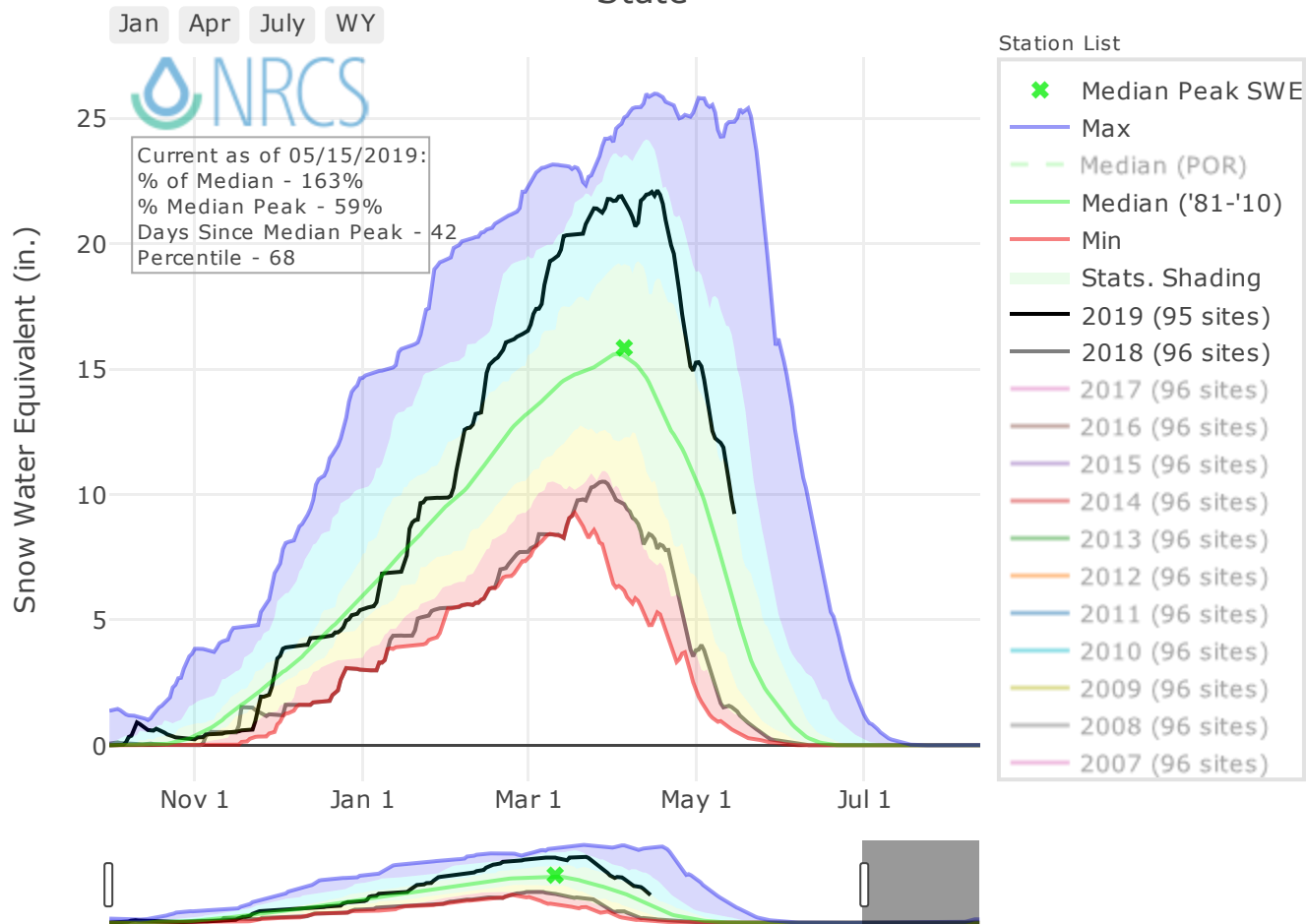
Snow Water Equivalent in State



Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.

For more information visit: [30 year normals calculation description](#).

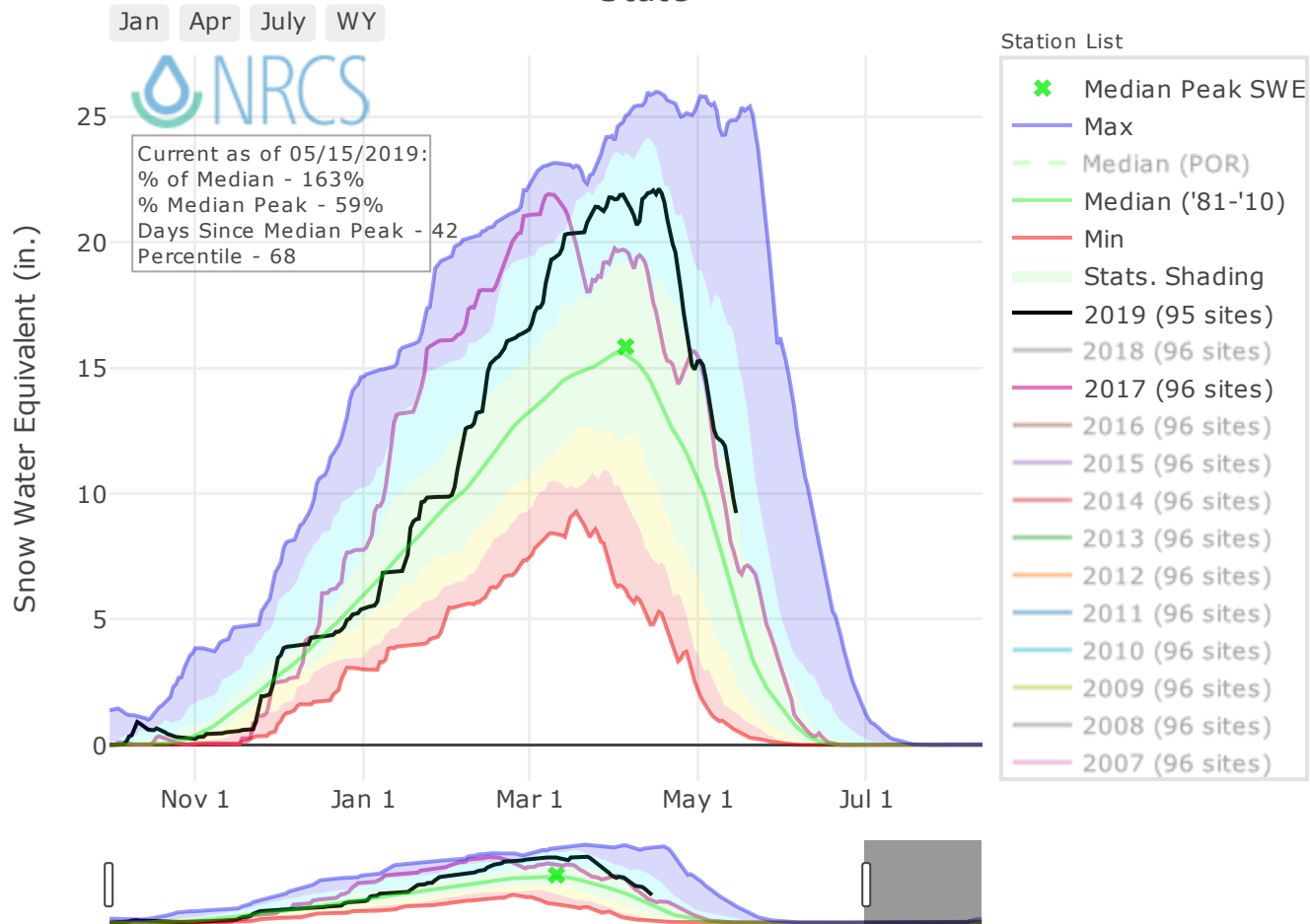
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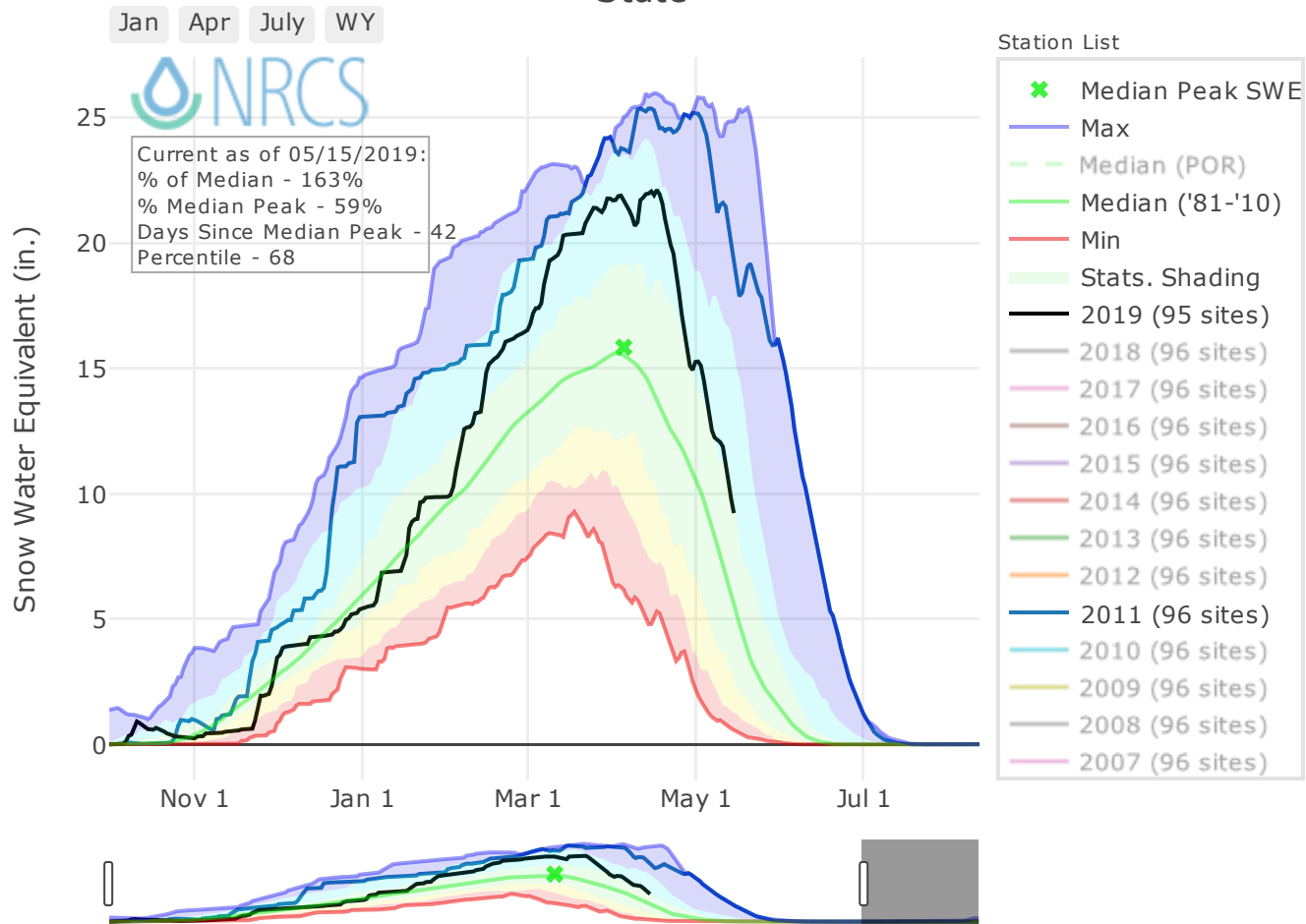
Snow Water Equivalent in State



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Snow Water Equivalent in State



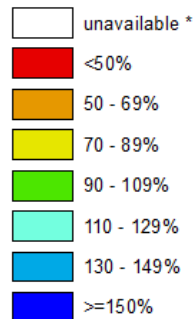
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.

For more information visit: [30 year normals calculation description](#).

SNOTEL Current Snow Water Equivalent (SWE) % of Normal

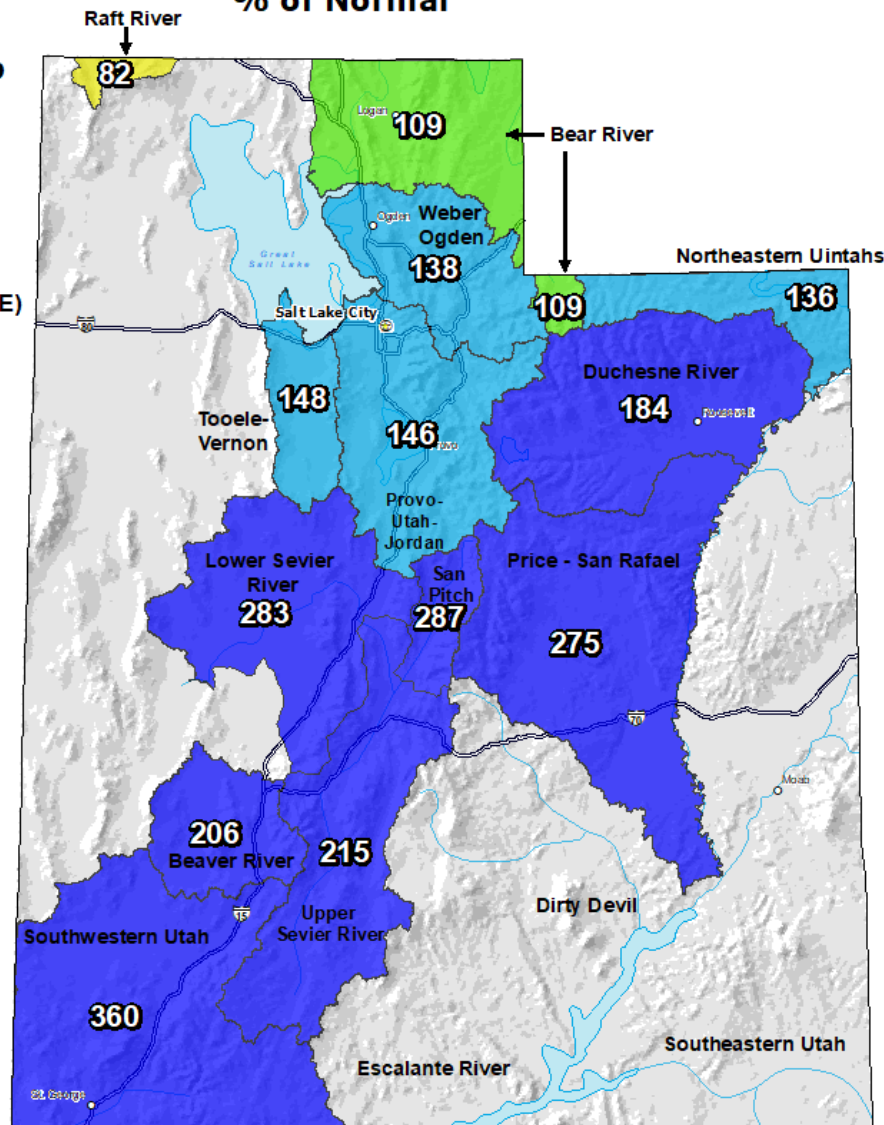
May 15, 2019

**Snow Water
Equivalent (SWE)
Basin-wide
Percent of
1981-2010
Median**



* Data unavailable at time
of posting or measurement
is not representative at this
time of year

*Provisional Data
Subject to Revision*

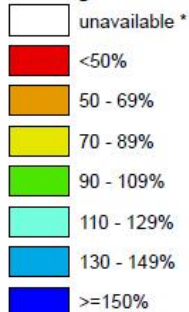


SNOTEL Water Year (Oct 1) to Date Precipitation

% of Normal

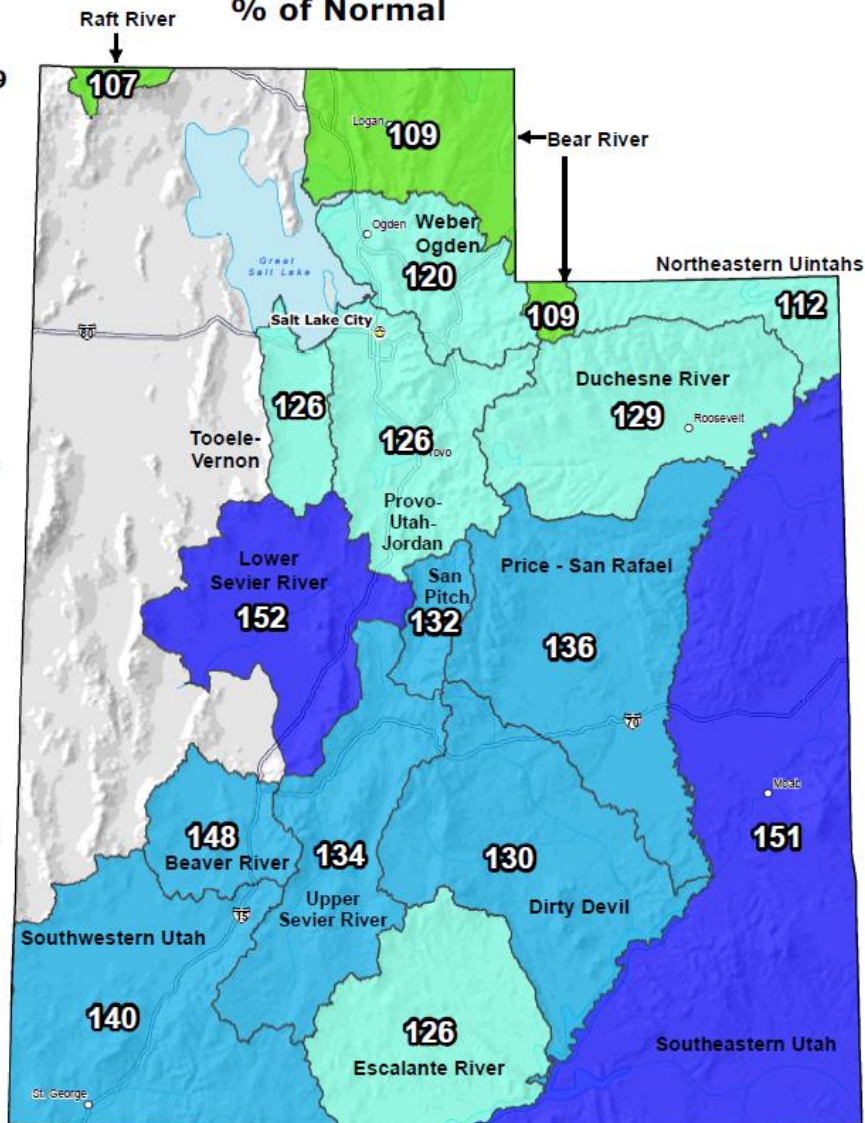
May 15, 2019

Water Year
(Oct 1) to Date
Precipitation
Basin-wide
Percent of
1981-2010
Average



* Data unavailable at time of posting or measurement is not representative at this time of year

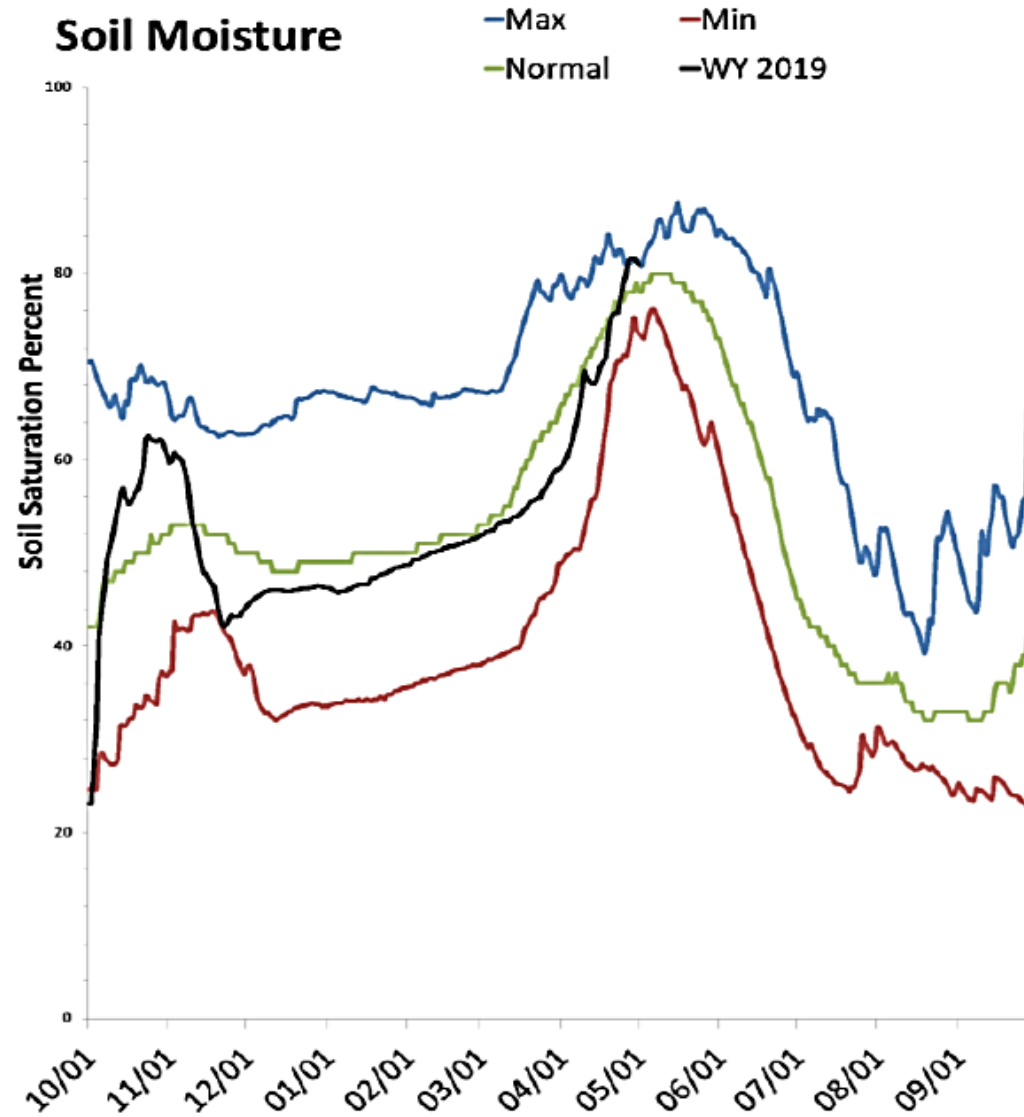
Provisional Data
Subject to Revision



0 10 20 40 60 80 100 Miles



SNOTEL



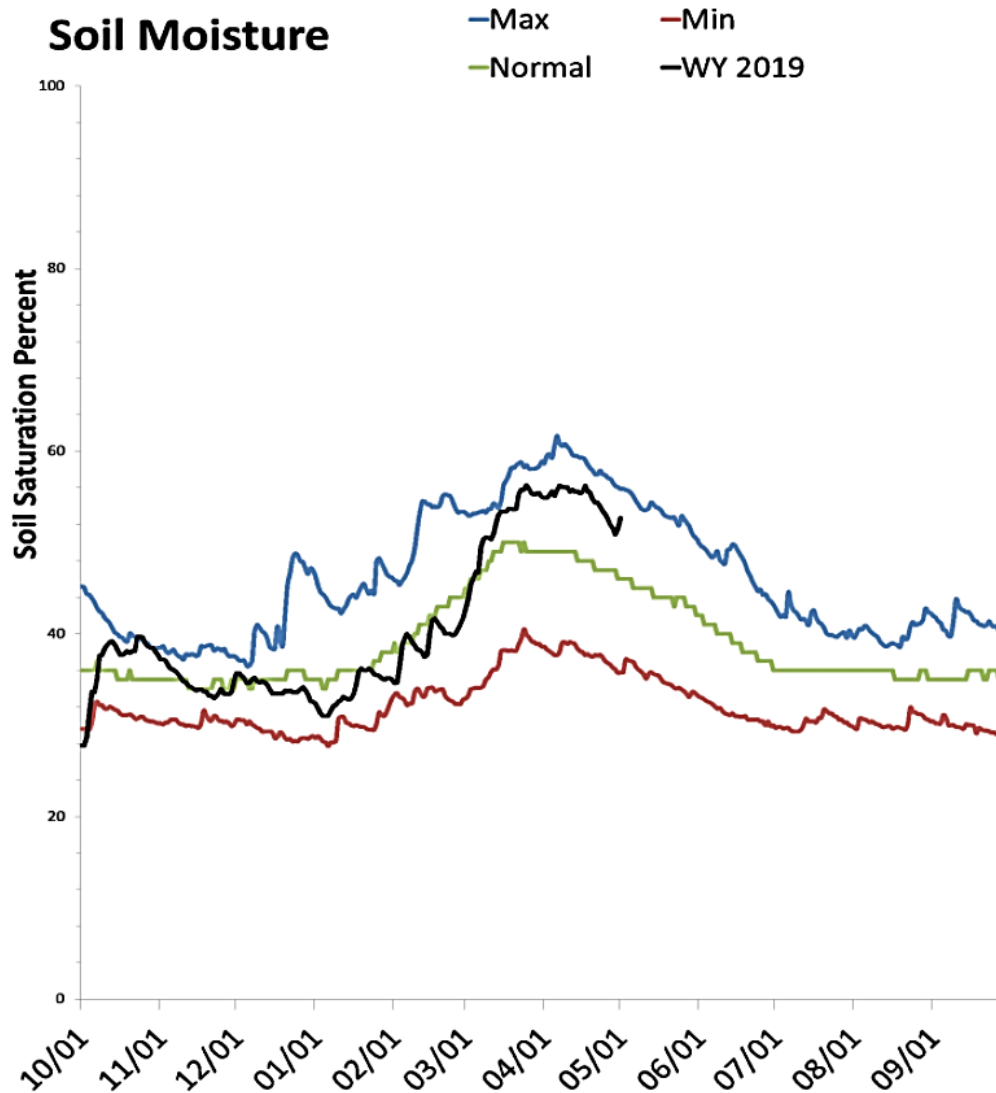
SCAN



Site name	Total Current Precip ¹ <i>in.</i>	% of Normal Precip ² <i>in.</i>
WESTERN		
Grouse Creek	9.3	123
Park Valley	8.6	137
Goshute	9.8	168
Dugway	7.2	156
Tule Valley	8.0	166
Hal's Canyon	6.7	213
Enterprise	10.6	167
DIXIE		
Sand Hollow	10.8	164
NORTH CENTRAL		
Blue Creek	12.6	150
Cache Junction	17.0	132
Grantsville	10.1	144
SOUTH CENTRAL		
Nephi	14.9	189
Ephraim	9.4	168
Holden	10.1	174
Milford	9.4	181
Manderfield	12.0	188
Circleville	8.1	217
Panguitch	7.9	177
Cave Valley	22.2	165
Vermillion	16.0	172
Spooky	8.8	184
NORTHERN MOUNTAIN		
Chicken Ridge	9.4	142
Buffalo Jump	8.8	140
Morgan	16.8	136
UINTAH BASIN		
Mountain Home	9.6	205
Little Red Fox	9.0	210
Split Mountain	7.5	167
SOUTHEAST		
Price	8.5	190
Green River	10.5	292
Harm's Way	9.7	177
West Summit	7.0	173
Eastland	9.3	197
Alkali Mesa	14.0	277
McCracken Mesa	9.0	179



SCAN

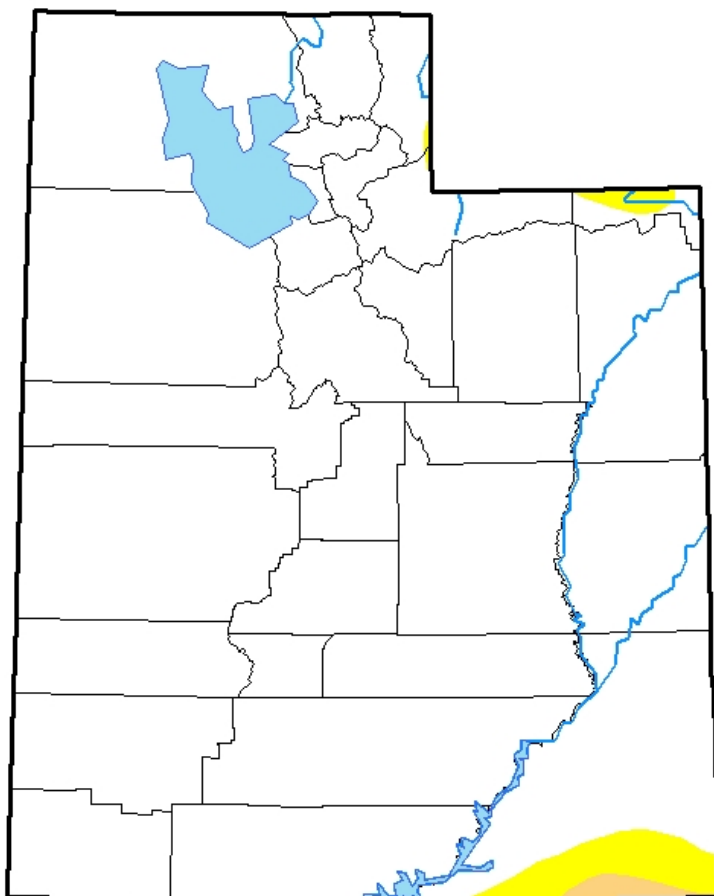


U.S. Drought Monitor Utah

May 7, 2019

(Released Thursday, May. 9, 2019)

Valid 8 a.m. EDT



Intensity:

-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

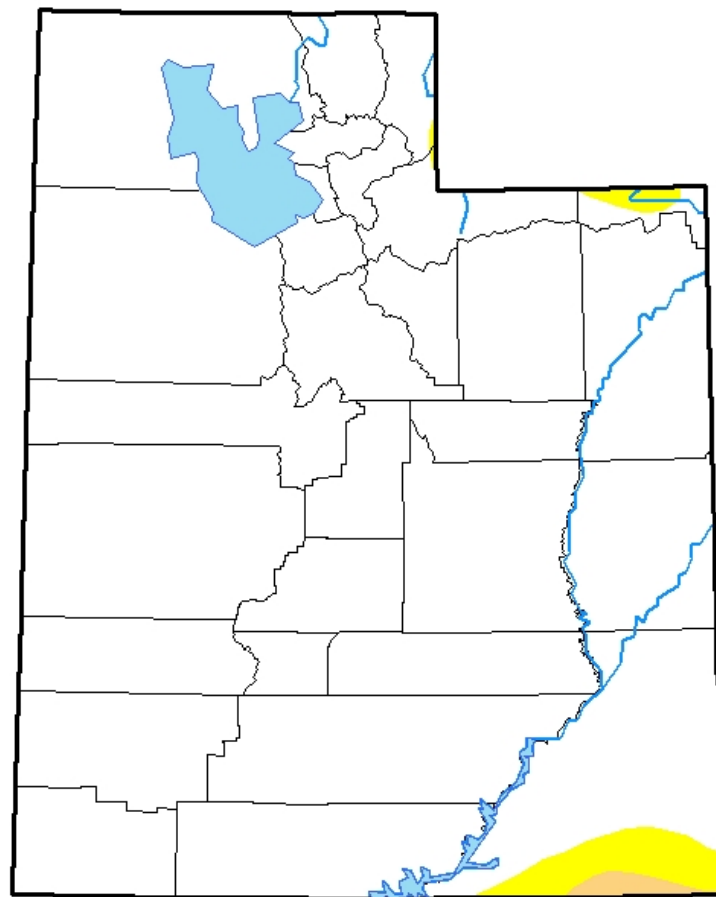
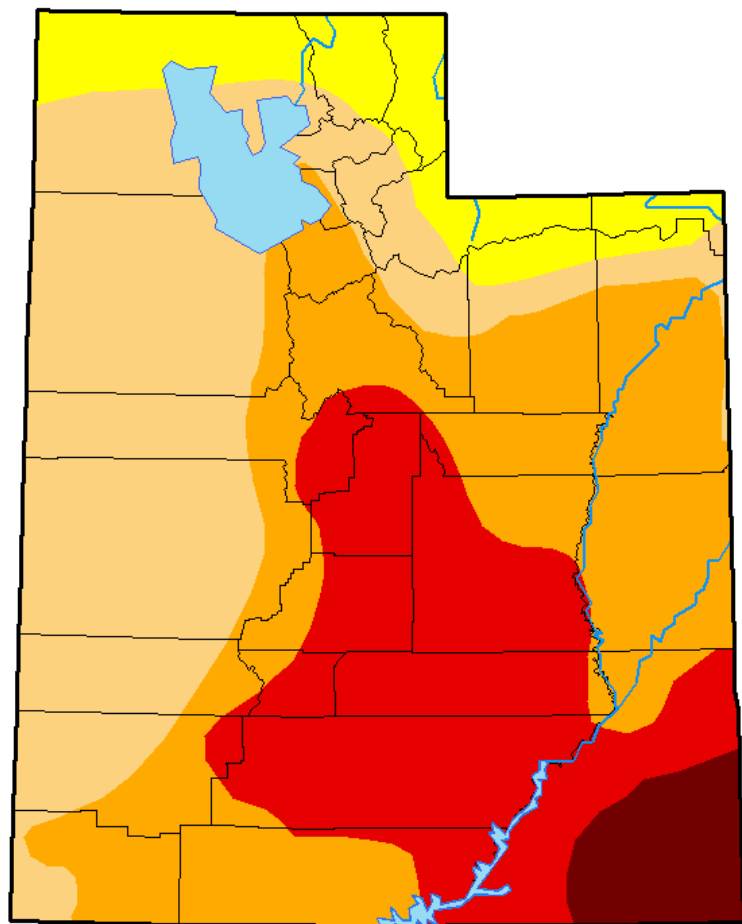
Author:

Curtis Riganti
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>





Summary*

- Snowpack 143% of normal (35%)
 - Southwestern and Southeastern >200%
- Precipitation 127% of normal (67%)
- Drought conditions continue to retreat in all areas of Utah

* as of May 1st



Summary*

- Streamflow forecasts-
 - ≈ 100% - Green River @ Flaming Gorge
 - ≈ 115% - Bear River near Woodruff
 - ≈ 125% - Weber River near Coalville
 - ≈ 126% - Provo River below Deer Creek

* as of May 1st



Summary*

- Streamflow forecasts-
 - ≈ 160% - Virgin River at Virgin
 - ≈ 140% - Colorado River near Cisco
 - ≈ 250% - Sevier near Gunnison
 - ≈ 220% - Sevier River at Hatch
 - ≈ 270% - Mill Creek near Moab

* as of May 1st



2019

inspirationlaboratories.com

**Too Wet!
Flooding!**

**Ahhh!
Just Right!**

**Too Dry!
Not Enough
Runoff!**

Summary

- No weekly or monthly reports until October 1st



Utah Climate and Water Report

March 1, 2019



Near Rees Flat SNOTEL, Juab County, Utah

Photo by Jordan Clayton

temperature - Utah Soil Climate Analysis Network - Apr-17-2019									
County	Weekly* Average Air Temp °F		Weekly* Maximum Air Temp °F		Soil Temperature				
					2"	4"	8"	20"	40"
					°F	°F	°F		
Box Elder	38	54	26	42	44	45	43	43	43
Box Elder	40	53	25	42	45	47	46	45	45
Tooele	44	65	31	41	44	47	46	45	45
Tooele	44	65	26	50	53	55	54	54	53
Millard	47	70	31	43	49	54	54	54	53
Millard	46	70	28	42	46	51	51	51	49
Sackington	43	65	22	42	47	49	49	49	48
Sackington	55	78	38	51	57	63	63	63	63
Box Elder	40	51	31	42	44	46	46	44	43
CACHE	42	52	31	46	47	46	45	45	44
Tooele	45	64	31	47	50	51	51	46	50
Juab	41	63	27	46	46	46	46	46	45
Juab	41	64	25	44	46	47	45	43	43
Sanpete	45	69	26	48	48	48	49	48	48
Beaver	45	68	25	47	48	49	49	48	48
Beaver	38	61	26	39	48	45	44	43	43
Platte	41	63	29	43	47	49	48	48	48
Garfield	37	63	16	42	43	43	42	42	41
Sackington	41	62	22	40	42	45	48	47	47
Kane	43	66	24	42	44	46	46	45	45
Kane	49	70	31	51	53	55	55	56	54
Morgan	32	44	21	33	33	33	33	34	36
Rich	38	53	27	39	40	40	40	38	36
Morgan	39	56	24	40	42	44	44	44	42
Duchesne	39	57	23	42	43	43	43	41	41
Duchesne	41	60	18	46	46	46	46	45	43
Utah	44	66	28	50	51	50	48	48	46
Carbon	45	66	28	44	48	49	49	50	48
Emery	51	73	27	54	55	56	54	48	48
San Juan	38	60	23	41	43	45	43	43	42
San Juan	39	60	23	43	44	46	44	44	43
San Juan	41	62	24	47	47	47	47	44	43
San Juan	44	64	26	48	49	50	48	48	46
San Juan	50	72	31	54	56	56	56	52	51

only data including wind speed, wind direction, relative humidity, solar radiation, etc. are available
h-gser/can/utah/utah.html
Soil data are midnight values
a-temperatures are for previous 7 day period na=no sensor bd=bedrock

Utah Soil Climate Analysis Network - Apr-17-2019

Total Current Precip ¹ in	% of Normal Precip ² in	Soil Moisture Volume %				Current Actual Water Waters ³ in	Current Actual Water % of AMC ⁴ %
		2"	4"	8"	40"		
8.7	128	19	20	21	26	5.5	81
9.2	142	11	16	na	na		
7.9	157	na	na	na	na		
6.4	156	na	na	na	na		
6.6	155	22	22	7	1	0.1	5
8.2	206	17	14	11	21	1.1	21
10.4	175	20	14	31	26	3.8	71
10.0	183	6	0	0	0	0.1	5
11.3	147	19	20	21	26	7.3	140
16.5	145	144	34	47	41	5.9	151
9.4	153	24	na	na	na		
13.0	186	17	13	14	16	2.9	64
8.7	169	24	29	33	38		
9.2	181	20	18	16	20	3.0	40
8.7	187	27	31	16	na	0	
11.1	198	19	na	27	21	2.2	40
7.4	222	17	18	18	26	4.8	72
7.5	182	18	11	20	31	5.7	98
21.3	168	7	11	19	6	2.2	40
14.7	187	3	9	8	na	1.9	40
8.3	181	2	3	2	10	0.4	5
8.6	146	24	25	31	39	7.3	101
8.2	143	22	29	26	29	3.0	70
16.5	145	17	17	14	20	7.5	91
8.5	201	18	25	12	26	5.0	82
8.1	207	16	32	39	39	3.8	50
6.5	159	12	20	23	13	1.7	25
8.1	195	1	15	24	na	0.2	3
8.8	225	14	19	11	18	0.2	4
8.3	177	39	27	28	28	5.0	99
6.7	169	22	25	18	na	3.2	52
8.5	190	18	20	25	33	6.2	105
12.8	287	14	15	34	27	3.5	68
8.8	184	18	26	22	22	3.1	84

g-accumulation, water year to date
 period, scaled by max. accumulation
 na=missing data
 bd=bedrock

What the color means:
 = below wilting point (WP), too dry
 = between WP & FC, ideal
 = above field capacity (FC)



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Questions?



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